

Abstract

A laser-marking system that marks products by emitting a laser beam. A laser detection device in the laser-marking system determines whether a laser emitted a laser beam in proper relation to the product. If the laser detection device determines that the laser beam was not emitted in proper relation to the product, an error output signal is generated. The proper relation determination may, for example, be time based or count based. The error output signal may be communicated to a controller, such as a central controller or a programmable logic controller. The controller may shut down operation of the assembly line, shut down the laser-marking system, and/or may alter such systems as desired. The error output signal may also be communicated to a customer interface and/or to a remote location.